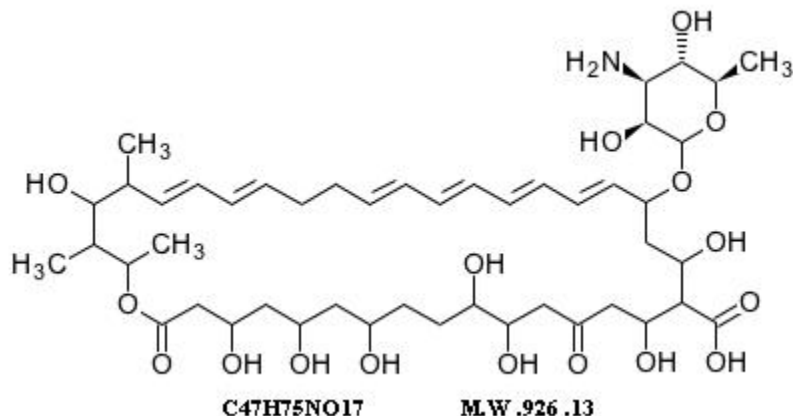


**NYSTATIN - nystatin suspension**  
Glenmark Generics Inc., USA

**DESCRIPTION**

Nystatin is obtained from *Streptomyces noursei*. It is known to be a mixture, but the composition has not been completely elucidated. Nystatin A is closely related to amphotericin B. Each is a macro-cyclic lactone containing a ketal ring, an *all-trans* polyene system, and a mycosamine (3-amino-3-deoxyrhamose) moiety. Its structural formula is:



Nystatin oral suspension, USP, is a cherry-flavored, ready-to-use suspension containing 100,000 units of nystatin per mL. Nystatin contains the following inactive ingredients: edetate calcium disodium, cherry flavor, magnesium aluminum silicate, methylparaben, polysorbate 80, propylparaben, sucrose, and D&C Yellow 10.

**CLINICAL PHARMACOLOGY**

Nystatin acts by binding to sterols in the cell membrane of the fungus with a resultant change in membrane permeability allowing leakage of intracellular components. Nystatin is absorbed very sparingly following oral administration, with no detectable blood levels when given in the recommended doses.

**INDICATIONS AND USAGE**

Nystatin oral suspension, USP is indicated for the treatment of infections of the oral cavity caused by *Candida albicans*.

**CONTRAINDICATIONS**

Nystatin is contraindicated in patients with a history of hypersensitivity to nystatin or any of the suspension components.

**PRECAUTIONS**

**General**

Discontinue treatment with nystatin if sensitization or irritation is reported during use.

Nystatin is not effective in the treatment of systemic mycoses since it is not significantly absorbed from the gastrointestinal tract.

**Information for the Patient**

Patient should be advised to retain nystatin in the mouth as long as possible and to continue its use for at least 2 days after symptoms have subsided.

There should be no interruption or discontinuation of the medication until the prescribed course of treatment is completed, even though symptomatic relief may occur within a few days.

If symptoms of local irritation develop, the physician should be notified immediately.

**Laboratory Tests**

If there is a lack of therapeutic response, appropriate microbiological studies (e.g., KOH smears and/or cultures) should be repeated to confirm the diagnosis of candidiasis and rule out other pathogens before instituting another course of therapy.

**Carcinogenesis, Mutagenesis, Impairment of Fertility**

No long-term animal studies have been performed to evaluate the carcinogenic potential of nystatin. In mice exposed to nystatin 50 mg/kg by injection, an increased incidence of chromosomal aberrations, consisting primarily of chromatid breaks, was observed in bone marrow cells. However, there have been no studies to determine the mutagenicity of orally-administered nystatin or its effects on fertility in males or females.

## **Pregnancy**

### **Teratogenic effects - Pregnancy Category C**

Teratogenicity studies have not been conducted with nystatin. It is also not known whether nystatin can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Nystatin should be given to a pregnant woman only if clearly needed.

### **Nonteratogenic effects**

In one rat reproductive study, nystatin was administered orally to pregnant rats in single doses of 100, 500, or 3000 mg/kg on the ninth day of gestation, or as multiple doses of 500 mg/kg/day on gestation days 1-20, 1-4, 7-10, 11-14, or 15-18. It was found that nystatin had a slight abortive effect when used during the whole period of pregnancy. No abnormalities were seen in surviving fetuses. Although no adverse effects or complications have been attributed to the use of intra-vaginal nystatin in neonates born to women treated during pregnancy, no similar studies evaluating complications of oral nystatin have been conducted.

## **Nursing Mothers**

It is not known whether nystatin is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when nystatin is administered to a nursing woman.

## **Pediatric Use**

See **DOSAGE AND ADMINISTRATION** section for pediatric dosing recommendations.

## **ADVERSE REACTIONS**

Gastrointestinal symptoms including diarrhea, gastrointestinal distress, nausea, vomiting and burning of the mouth have been reported. Hypersensitivity reactions including rash, pruritus, and anaphylactoid reaction have also been reported.

## **OVERDOSAGE**

Oral doses of nystatin in excess of five million units daily have caused nausea and gastrointestinal upset.

## **DOSAGE AND ADMINISTRATION**

Infants: 2 mL (200,000 units) four times daily (1 mL in each side of mouth).

Pediatric patients and adults: 4 to 6 mL (400,000 to 600,000 units) four times daily (one-half of dose in each side of mouth).

NOTE: Limited clinical studies in neonates, including premature and low-birth weight neonates, indicate that 1 mL (100,000 units) four times daily is effective.

Local treatment should be continued at least 48 hours after perioral symptoms have disappeared and/or cultures returned to normal. It is recommended that the drug be retained in the mouth as long as possible before swallowing.

## **HOW SUPPLIED**

Nystatin oral suspension, USP is a cherry flavored, ready-to-use suspension containing 100,000 units of nystatin per mL.

Store at controlled room temperature between 20°C and 25°C (68°F-77°F).

**DO NOT FREEZE**

Manufactured by:

DPT Labs

Lakewood, NJ 08701

Manufactured for:



Glenmark Pharmaceuticals Inc., USA

Mahwah, NJ 07430

1-(888) 721-7115

Revision : December, 2006

PRINCIPAL DISPLAY PANEL



NDC 68462-148-02

# NYSTATIN

ORAL SUSPENSION USP  
(Cherry Flavored)

100,000  
Units/mL

WARNING - NOT FOR INJECTION

60 mL

CAUTION: Federal law prohibits  
dispensing without prescription.  
DROPPER ENCLOSED IN PACKAGE

**SHAKE WELL BEFORE USING.**

Each mL contains 100,000 units of Nystatin.

Preservatives: Methylparaben 0.12%,

Propylparaben 0.03%.

AVERAGE DAILY DOSAGE FOR INFANTS:

2 mL (200,000 units) four times daily.

(1 mL in each side of mouth).

See enclosed circular.

Store at Controlled Room Temperature 20-25°C (68-77°F).

**DO NOT FREEZE.**

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Questions? 1(888)721-7115

[www.glenmarkpharma.com](http://www.glenmarkpharma.com)

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Rev.12/06

